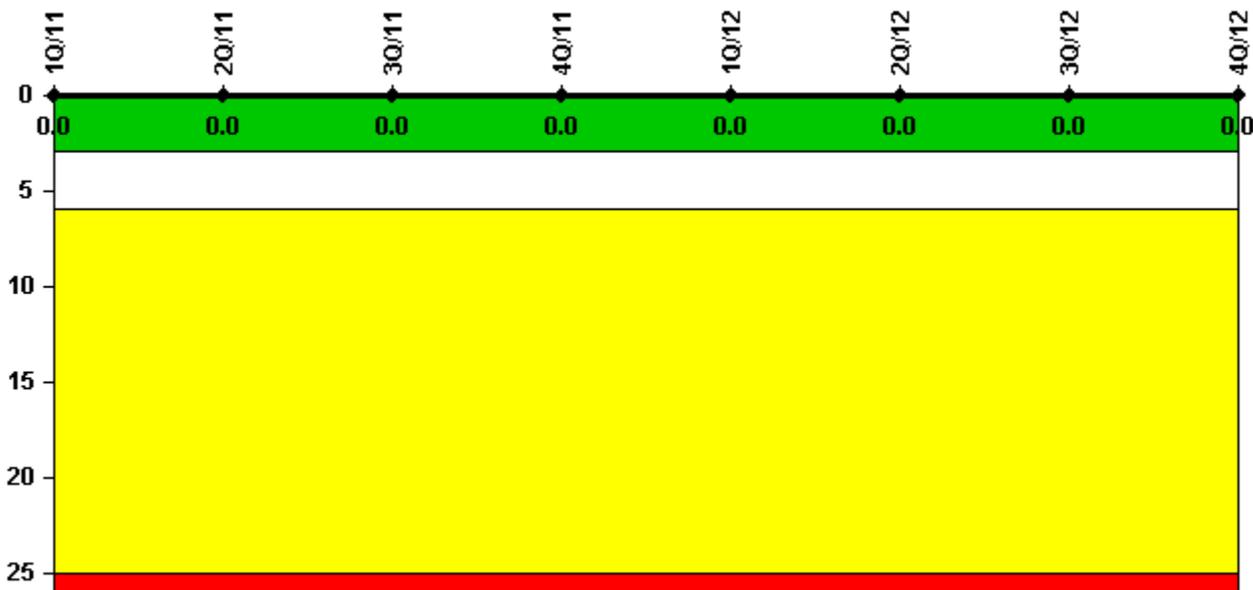


Callaway

4Q/2012 Performance Indicators

Licensee's General Comments: A general update made to the Callaway PRA model. The MSPI Basis Document was revised to reflect the PRA model update. The Basis Document revision was approved on 9/28/2012 to be effective for 4th quarter 2012.

Unplanned Scrams per 7000 Critical Hrs



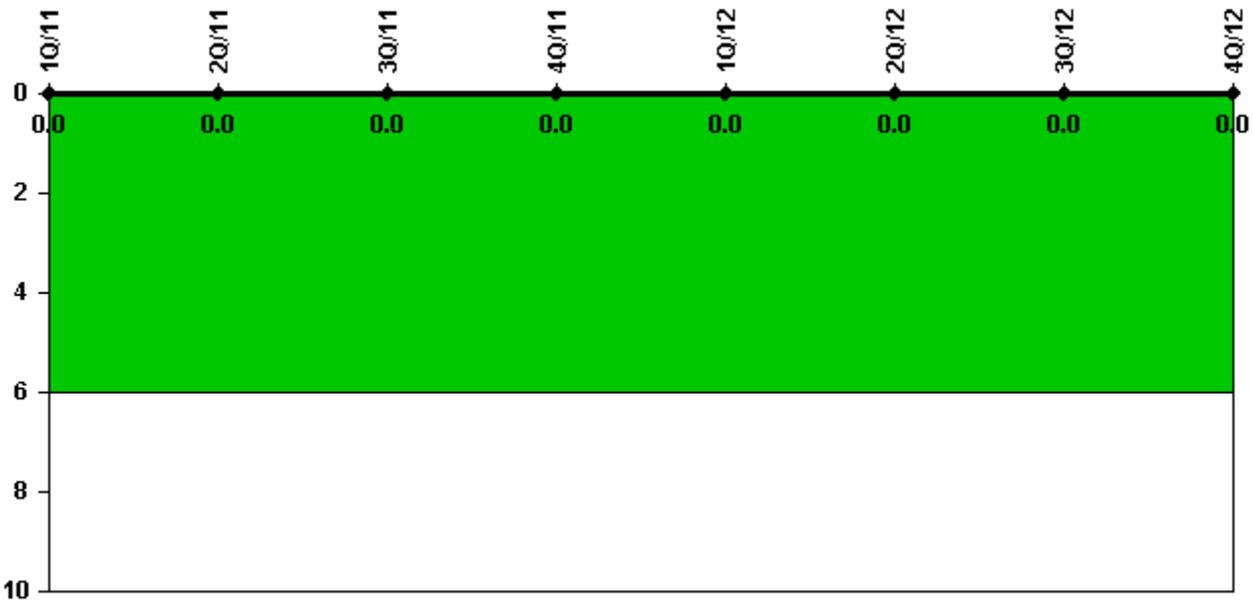
Thresholds: White > 3.0 Yellow > 6.0 Red > 25.0

Notes

Unplanned Scrams per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned scrams	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1233.2	2183.0	2184.0	2208.0	2209.0
Indicator value	0							

Licensee Comments: none

Unplanned Power Changes per 7000 Critical Hrs



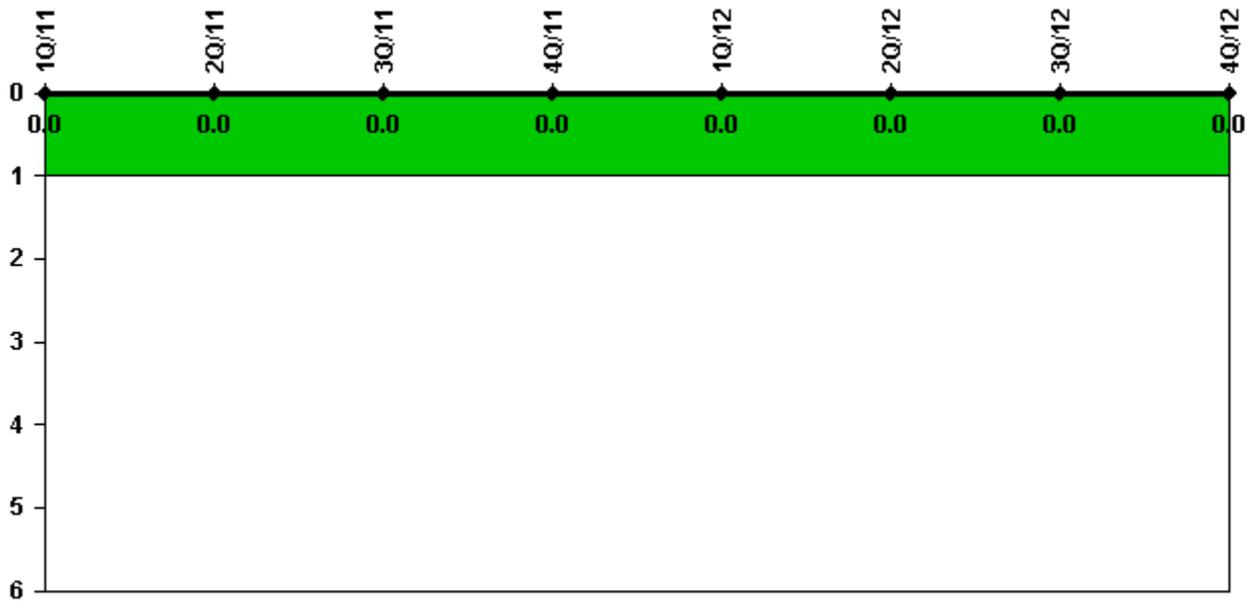
Thresholds: White > 6.0

Notes

Unplanned Power Changes per 7000 Critical Hrs	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Unplanned power changes	0	0	0	0	0	0	0	0
Critical hours	2159.0	2184.0	2208.0	1233.2	2183.0	2184.0	2208.0	2209.0
Indicator value	0							

Licensee Comments: none

Unplanned Scrams with Complications



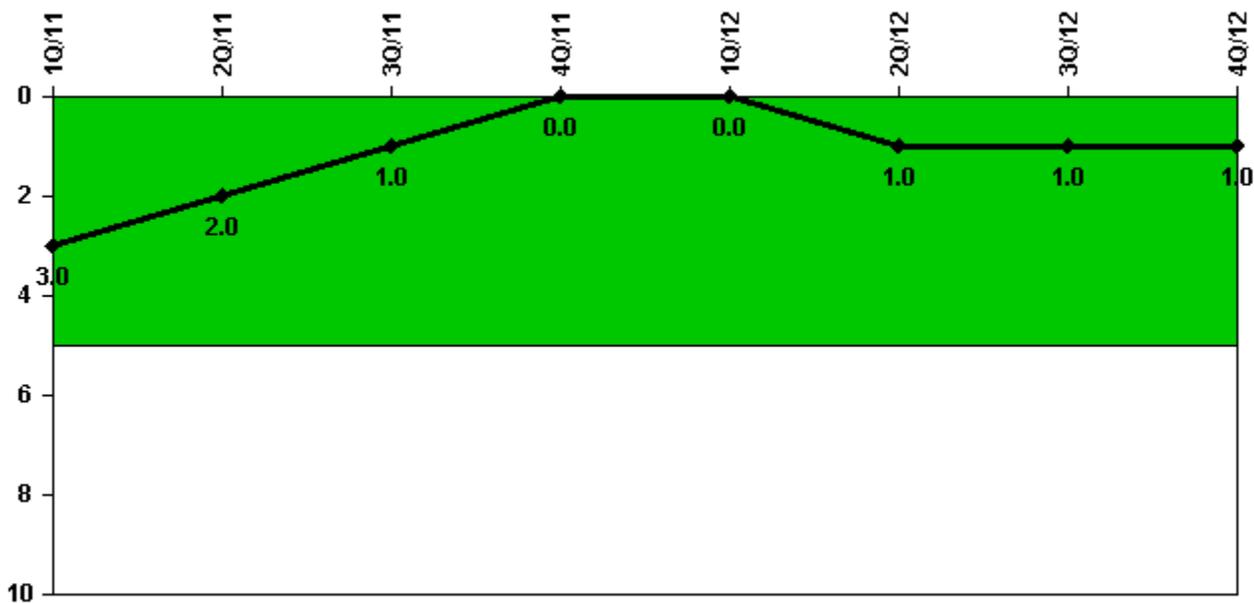
Thresholds: White > 1.0

Notes

Unplanned Scrams with Complications	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Scrams with complications	0	0	0	0	0	0	0	0
Indicator value	0.0							

Licensee Comments: none

Safety System Functional Failures (PWR)



Thresholds: White > 5.0

Notes

Safety System Functional Failures (PWR)	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Safety System Functional Failures	0	0	0	0	0	1	0	0
Indicator value	3	2	1	0	0	1	1	1

Licensee Comments:

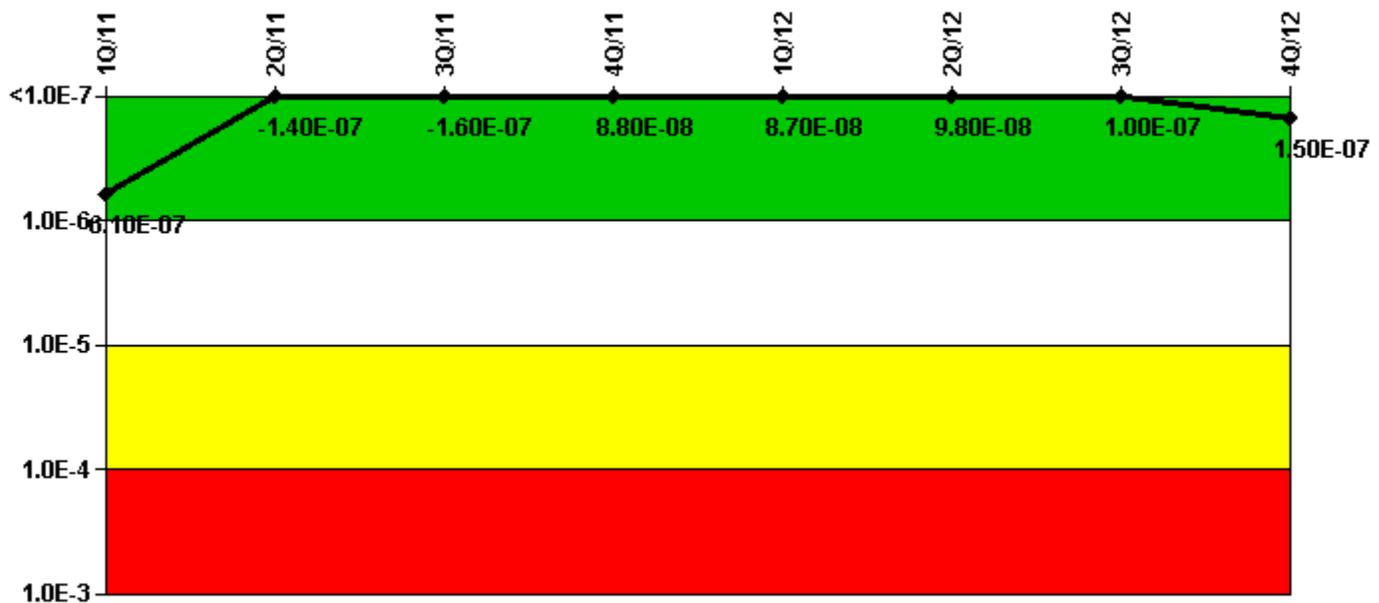
2Q/12: LER 2012-001-00 was submitted 2012.05.23 as a SSFF.

3Q/11: The count of Safety System Functional Failures submitted for 1Q2011 was changed from "1" to "0". The SSFF corresponding to LER 2010-009-00, originally submitted on 27 January 2011, was subsequently retracted by LER 2010-009-01 dated 16 September 2011. This does not result in a color change for MS05 in this period.

1Q/11: LER 2010-009-00, High Energy Line Break (HELB) Program Deficiencies, was submitted January 27, 2011 as a SSFF. This SSFF report was subsequently retracted by LER 2010-009-01, submitted September 16, 2011.

1Q/11: LER 2010-009-00, High Energy Line Break (HELB) Program Deficiencies, was submitted January 27, 2011 as a SSFF.

Mitigating Systems Performance Index, Emergency AC Power System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Emergency AC Power System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	1.71E-07	1.03E-07	8.31E-08	8.70E-08	8.43E-08	9.44E-08	9.80E-08	7.91E-08
URI (Δ CDF)	4.41E-07	-2.47E-07	-2.47E-07	1.44E-09	2.49E-09	3.58E-09	4.68E-09	6.81E-08
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	6.10E-07	-1.40E-07	-1.60E-07	8.80E-08	8.70E-08	9.80E-08	1.00E-07	1.50E-07

Licensee Comments:

1Q/12: MSPI evaluations from events in November 2011 that were not able to be completed for the 4Q2011 data submittal have now been finalized. Based on the results of these evaluations, the data for 4Q2011 now reflects one MSPI failure (changed from zero failures). This did not result in a PI color change. Additionally, an evaluation for an event in February 2012 that could affect the Emergency AC Power MSPI indicator has not yet been completed. The final results of this pending evaluation are not expected to affect PI color.

4Q/11: Two engineering evaluations that could affect MS06 have yet to be completed. The events under evaluation involve the following: 1) Emergency Diesel Generator (EDG) performance during maintenance testing on 9 November 2011, and 2) EDG Lube Oil Keep Warm Pump performance on 11 November 2011. The data initially submitted for this indicator reflected a status of "undetermined" for these two evaluations. However, in order to properly calculate a value for this indicator, the data was re-submitted to indicate preliminary results of "not an MSPI failure" for these evaluations until such time that the evaluations can be completed. This indicator is not projected to change color from Green regardless of whether either of these events is ultimately evaluated to be an MSPI failure.

4Q/11: MSPI evaluations from events in November 2011 that were not able to be completed for the 4Q2011 data submittal were finalized for the 1Q2012 data submittal. Based on the results of these evaluations, the data for 4Q2011 now reflects one MSPI failure (changed from zero failures). This change does not result in a PI color change.

4Q/11: Two engineering evaluations that could affect MS06 have yet to be completed. The events under

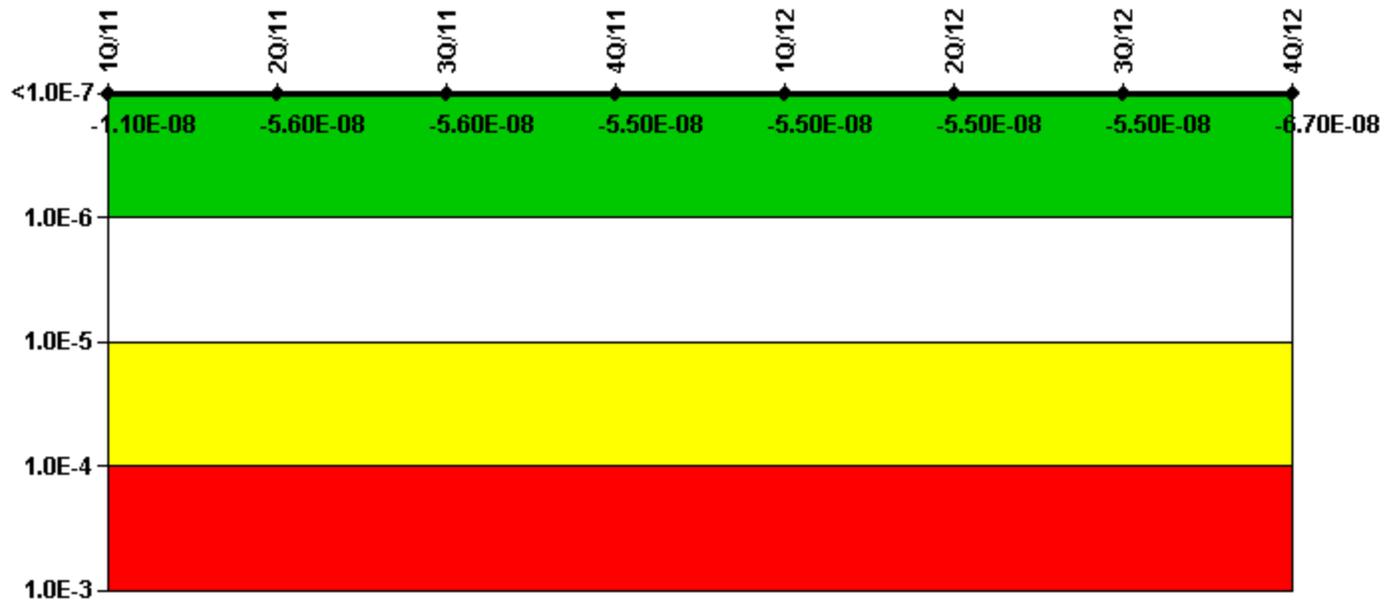
4Q/2012 Performance Indicators - Callaway

evaluation involve the following: 1) Emergency Diesel Generator (EDG) performance during maintenance testing on 9 November 2011, and 2) EDG Lube Oil Keep Warm Pump performance on 11 November 2011.

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

1Q/11: Risk Cap Invoked.

Mitigating Systems Performance Index, High Pressure Injection System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, High Pressure Injection System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	-1.54E-09	-6.33E-09	-6.33E-09	-6.33E-09	-6.33E-09	-6.33E-09	-6.33E-09	-1.81E-08
URI (ΔCDF)	-9.29E-09	-4.92E-08	-4.92E-08	-4.91E-08	-4.91E-08	-4.91E-08	-4.91E-08	-4.94E-08
PLE	NO							
Indicator value	-1.10E-08	-5.60E-08	-5.60E-08	-5.50E-08	-5.50E-08	-5.50E-08	-5.50E-08	-6.70E-08

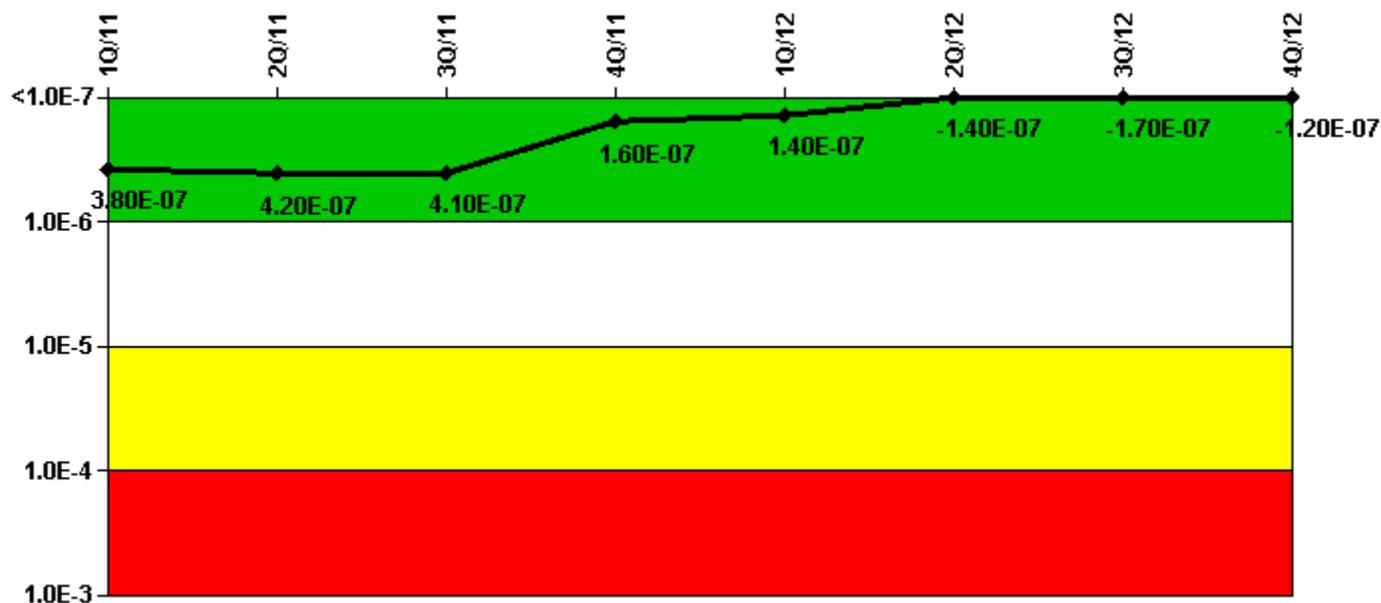
Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

1Q/11: Valve demand estimates for the MSPI High Pressure Injection System were changed based on revised

interpretation of the NEI guidance following industry benchmarking. These revised estimates are applied from 2007Q4 forward. A change to the MSPI basis document in 2011Q1 includes these demand estimate revisions. This change does not result in a PI color change.

Mitigating Systems Performance Index, Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (ΔCDF)	3.94E-08	3.22E-08	3.12E-08	3.79E-08	1.77E-08	4.63E-08	9.38E-09	4.57E-10
URI (ΔCDF)	3.38E-07	3.83E-07	3.83E-07	1.22E-07	1.22E-07	-1.83E-07	-1.83E-07	-1.24E-07
PLE	NO	NO	NO	NO	NO	NO	NO	NO
Indicator value	3.80E-07	4.20E-07	4.10E-07	1.60E-07	1.40E-07	-1.40E-07	-1.70E-07	-1.20E-07

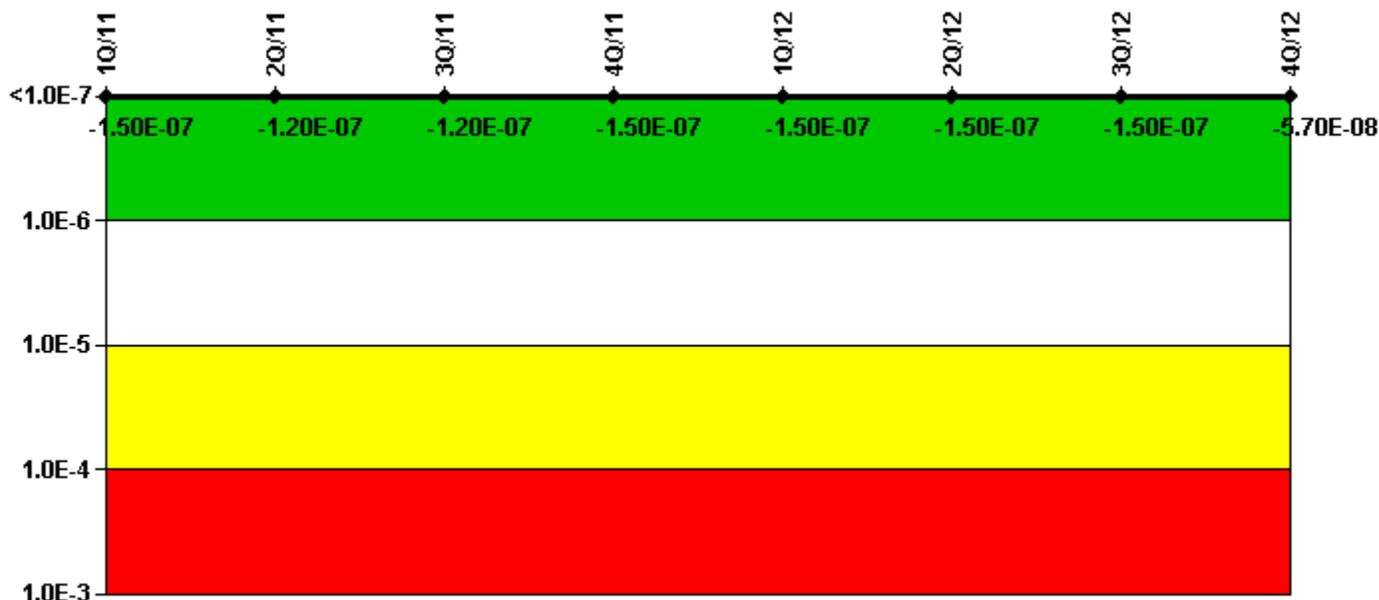
Licensee Comments:

4Q/12: MSPI Bases Document updated to revise baseline unavailability. The document change was approved on 9/28/2012 to be effective for 4th quarter 2012.

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

1Q/11: Valve demand estimates for the MSPI Heat Removal System were changed based on revised interpretation of the NEI guidance following industry benchmarking. These revised estimates are applied from 2007Q4 forward. A change to the MSPI basis document in 2011Q1 includes these demand estimate revisions. This change does not result in a PI color change.

Mitigating Systems Performance Index, Residual Heat Removal System



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

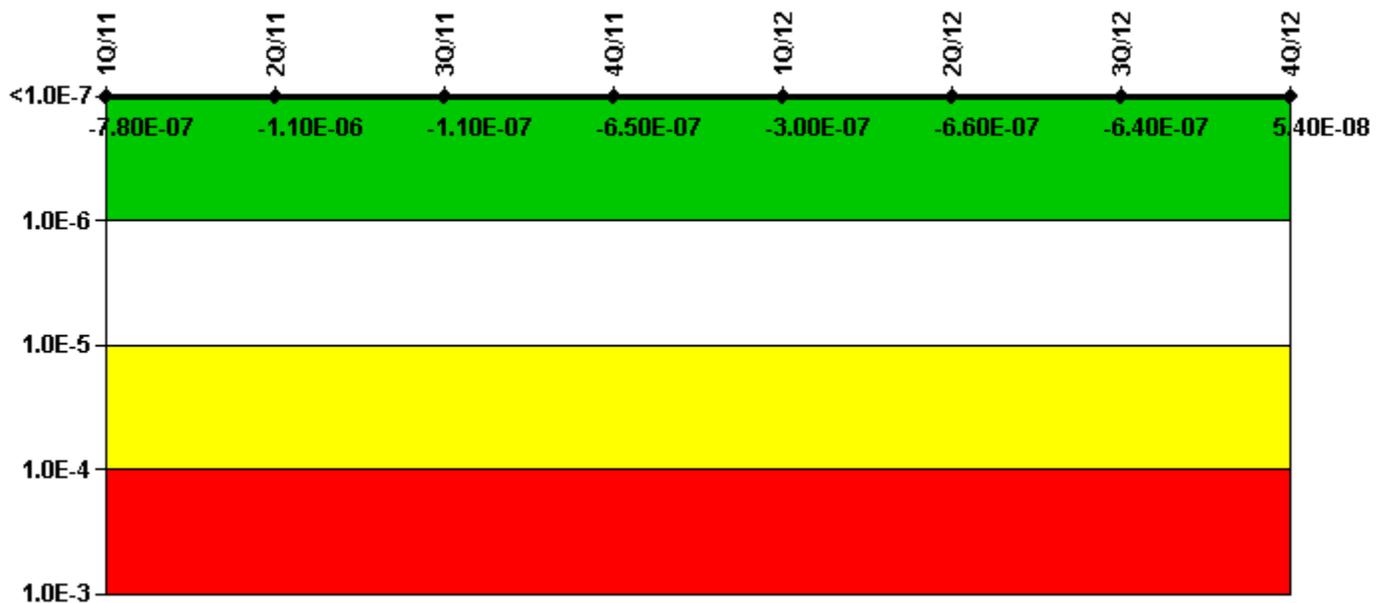
Mitigating Systems Performance Index, Residual Heat Removal System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-1.88E-08	7.64E-09	7.39E-09	-2.05E-08	-2.05E-08	-2.05E-08	-2.05E-08	2.59E-09
URI (Δ CDF)	-1.34E-07	-1.31E-07	-1.31E-07	-1.31E-07	-1.31E-07	-1.31E-07	-1.31E-07	-5.93E-08
PLE	NO							
Indicator value	-1.50E-07	-1.20E-07	-1.20E-07	-1.50E-07	-1.50E-07	-1.50E-07	-1.50E-07	-5.70E-08

Licensee Comments:

2Q/11: Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

1Q/11: Valve demand estimates for the MSPI Residual Heat Removal System were changed based on revised interpretation of the NEI guidance following industry benchmarking. These revised estimates are applied from 2007Q4 forward. A change to the MSPI basis document in 2011Q1 includes these demand estimate revisions. This change does not result in a PI color change.

Mitigating Systems Performance Index, Cooling Water Systems



Thresholds: White > 1.00E-6 Yellow > 1.00E-5 Red > 1.00E-4

Notes

Mitigating Systems Performance Index, Cooling Water Systems	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
UAI (Δ CDF)	-8.29E-08	-1.90E-07	8.08E-07	2.68E-07	6.18E-07	2.59E-07	2.78E-07	1.55E-07
URI (Δ CDF)	-6.97E-07	-9.15E-07	-9.15E-07	-9.15E-07	-9.15E-07	-9.15E-07	-9.15E-07	-1.01E-07
PLE	NO							
Indicator value	-7.80E-07	-1.10E-06	-1.10E-07	-6.50E-07	-3.00E-07	-6.60E-07	-6.40E-07	5.40E-08

Licensee Comments:

4Q/12: Risk Cap Invoked. Changed PRA Parameter(s). MSPI Bases Document updated to revise baseline demand changes. The document change was approved on 9/28/2012 to be effective for 4th quarter 2012.

3Q/12: Risk Cap Invoked.

2Q/12: Risk Cap Invoked.

1Q/12: Risk Cap Invoked. An evaluation for an event in March 2012 that could affect the Cooling Water Systems MSPI indicator has not yet been completed. The final results of this pending evaluation are not expected to affect PI color. (The following added in 2Q2012): The evaluation was completed during 2Q2012. The color of the PI was not affected.

1Q/12: Risk Cap Invoked. An evaluation for an event in March 2012 that could affect the Cooling Water Systems MSPI indicator has not yet been completed. The final results of this pending evaluation are not expected to affect PI color.

4Q/11: Risk Cap Invoked.

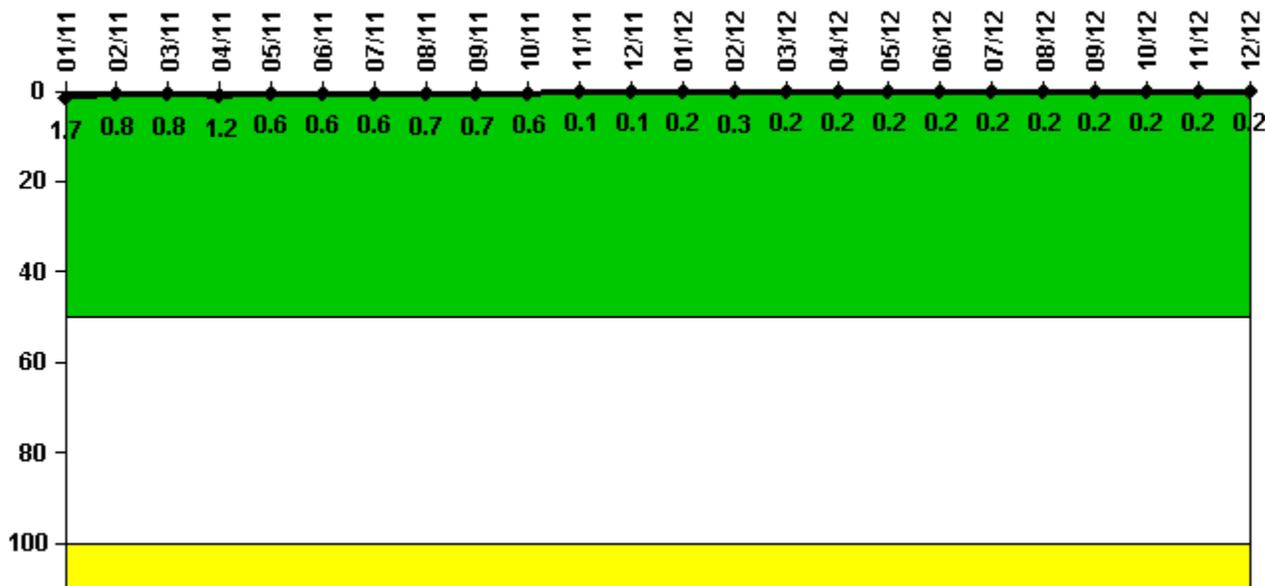
3Q/11: Risk Cap Invoked. The MSPI Basis Document was revised in 2Q2011 (i.e., effective for the 3Q2011 reporting period) to remove a one-time extended allowed outage time for the Essential Service Water (ESW) system. This one-time allowance for additional planned unavailability was added in 2Q2008 to support

replacement of ESW piping. Per the applicable guidance in NEI 99-02, this allowance must be removed within 12 quarters.

2Q/11: Risk Cap Invoked. Changed PRA Parameter(s). A change was made to the MSPI Basis Document that affected the PRA parameters for all MSPI systems for 2Q2011 forward. This change to the Basis Document reflects the installation of an alternate emergency power system.

1Q/11: MSPI planned unavailability coefficients were revised for the Component Cooling Water system because a monthly surveillance for each train no longer requires the train to be declared inoperable for the test. A change to the MSPI basis document in 2010Q4 includes these MSPI coefficient revisions. In addition, valve demand estimates for the MSPI Cooling Water System were changed based on revised interpretation of the NEI guidance following industry benchmarking. These revised estimates are applied from 2007Q4 forward. A change to the MSPI basis document in 2011Q1 includes these demand estimate revisions. These changes do not result in a PI color change.

Reactor Coolant System Activity



Thresholds: White > 50.0 Yellow > 100.0

Notes

Reactor Coolant System Activity	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum activity	0.013000	0.006000	0.006000	0.012000	0.005980	0.006260	0.006480	0.006680	0.006810	0.006370	0.000781	0.001400
Technical specification limit	0.8	0.8	0.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	1.7	0.8	0.8	1.2	0.6	0.6	0.6	0.7	0.7	0.6	0.1	0.1
Reactor												

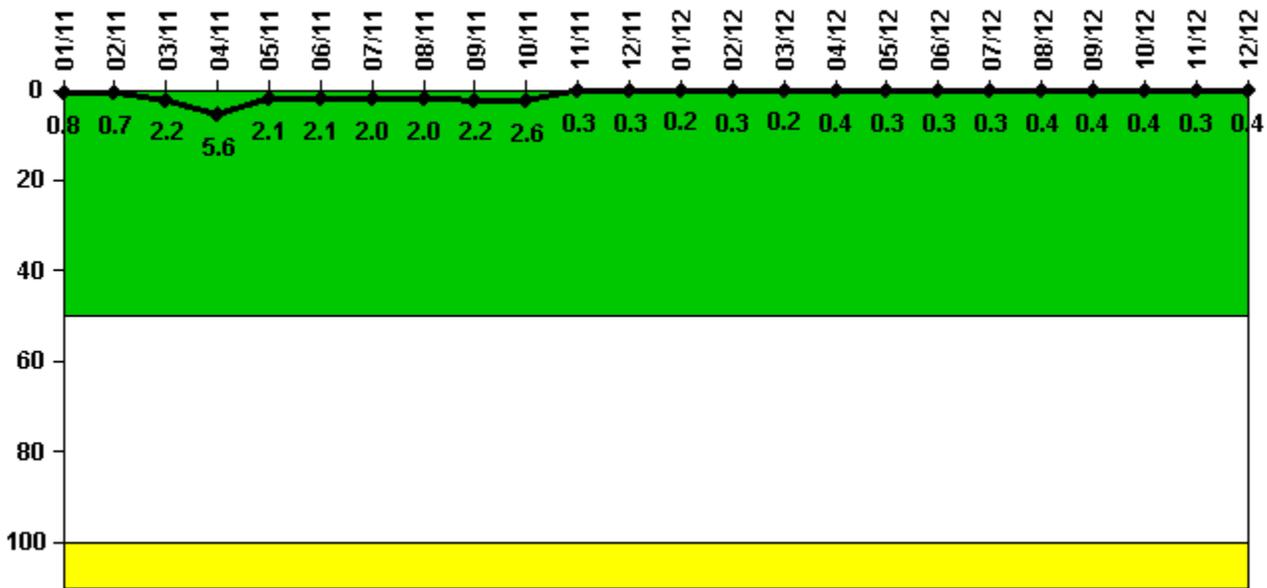
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Coolant System Activity	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum activity	0.001530	0.002580	0.001530	0.001580	0.001550	0.001680	0.001710	0.001790	0.001710	0.001770	0.001900	0.001840
Technical specification limit	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Indicator value	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2

Licensee Comments:

3/11: The "Technical Specification limit" value for this PI was changed from 1.0 uCi/gm to 0.75 uCi/gm dose equivalent I-131 from February 2010 through March 2011. During this period, Callaway implemented a compensatory action that imposed an administrative limit for RCS activity that was more restrictive than the Technical Specification limit. Per NEI 99-02, this more restrictive administrative limit was to be used for PI reporting purposes. This correction did not result in a PI color change. Callaway removed the administrative limit in March 2011.

Reactor Coolant System Leakage



Thresholds: White > 50.0 Yellow > 100.0

Notes

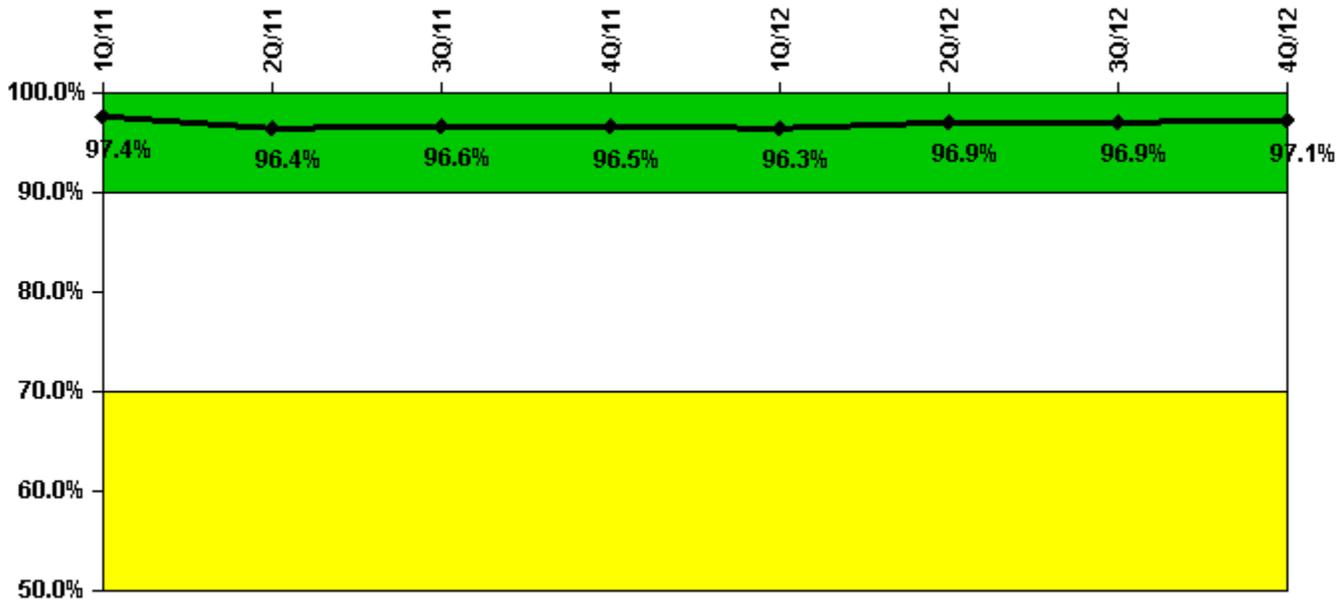
Reactor Coolant System Leakage	1/11	2/11	3/11	4/11	5/11	6/11	7/11	8/11	9/11	10/11	11/11	12/11
Maximum leakage	0.080	0.066	0.218	0.564	0.212	0.208	0.204	0.199	0.220	0.260	0.033	0.025
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.8	0.7	2.2	5.6	2.1	2.1	2.0	2.0	2.2	2.6	0.3	0.3

4Q/2012 Performance Indicators - Callaway

Reactor Coolant System Leakage	1/12	2/12	3/12	4/12	5/12	6/12	7/12	8/12	9/12	10/12	11/12	12/12
Maximum leakage	0.022	0.028	0.023	0.039	0.027	0.028	0.032	0.037	0.038	0.036	0.034	0.035
Technical specification limit	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
Indicator value	0.2	0.3	0.2	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.4

Licensee Comments: none

Drill/Exercise Performance



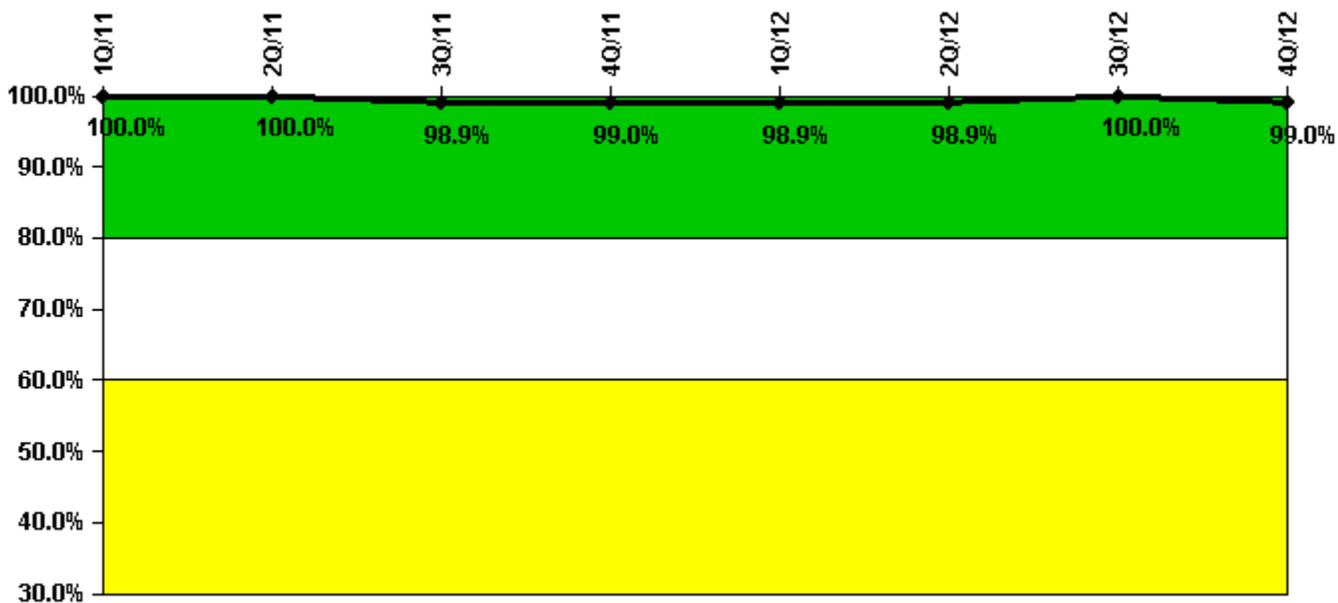
Thresholds: White < 90.0% Yellow < 70.0%

Notes

Drill/Exercise Performance	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful opportunities	50.0	23.0	36.0	9.0	25.0	6.0	39.0	45.0
Total opportunities	50.0	24.0	37.0	10.0	26.0	6.0	41.0	46.0
Indicator value	97.4%	96.4%	96.6%	96.5%	96.3%	96.9%	96.9%	97.1%

Licensee Comments: none

ERO Drill Participation



Thresholds: White < 80.0% Yellow < 60.0%

Notes

ERO Drill Participation	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Participating Key personnel	90.0	91.0	94.0	96.0	93.0	88.0	95.0	98.0
Total Key personnel	90.0	91.0	95.0	97.0	94.0	89.0	95.0	99.0
Indicator value	100.0%	100.0%	98.9%	99.0%	98.9%	98.9%	100.0%	99.0%

Licensee Comments:

3Q/12: 2012.10.15: adjusted data for 2Q2011, 4Q2011, 1Q2012, and 2Q2012. Comments added to each quarter that was adjusted. The adjustments did not affect the color of the indicator.

2Q/12: 2Q2012 (updated 2012.10.15) ERO Drill Participation was changed from 89 to 88 due to an inputting error which was discovered during an inspection. This change did not affect the color of the indicator.

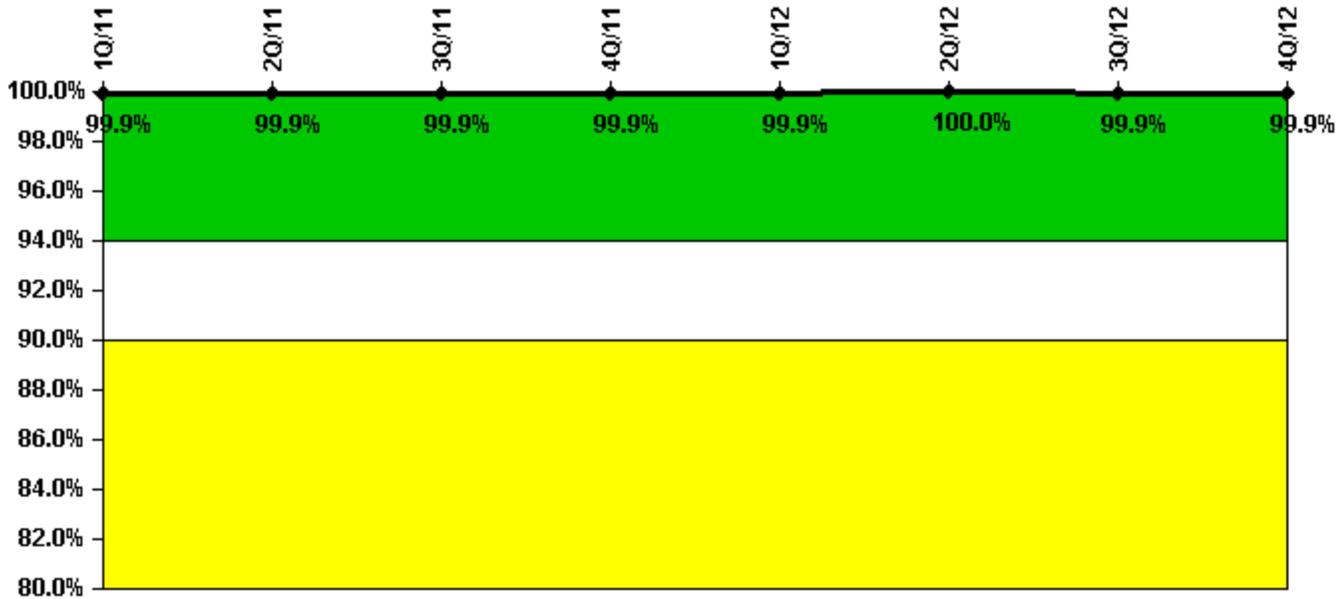
1Q/12: 1Q2012 (updated 2012.10.15) ERO Drill Participation was changed from 94 to 93 due to an inputting error which was discovered during an inspection. This change did not affect the color of the indicator.

4Q/11: 4Q2011 (updated 2012.10.15) ERO Drill Participation was changed from 97 to 96 due to an inputting error which was discovered during an inspection. This change did not affect the color of the indicator.

2Q/11: 2Q2011 (updated 2012.10.15) ERO Drill Participation was changed from 93 to 91 due to an error found during an inspection. Two individuals were given credit, but it was determined that they had actually lost their qualifications due to missing a required training class. This change did not affect the color of the indicator. --- Old entry: The ERO Drill Participation data for 3Q2010 was changed from 116 of 118 to 115 of 118. This change corrected an error in which one individual was inadvertently reported as having participated in an ERO drill. This error was discovered by an NRC Emergency Preparedness inspector.

2Q/11: The ERO Drill Participation data for 3Q2010 was changed from 116 of 118 to 115 of 118. This change corrected an error in which one individual was inadvertently reported as having participated in an ERO drill. This error was discovered by an NRC Emergency Preparedness inspector.

Alert & Notification System



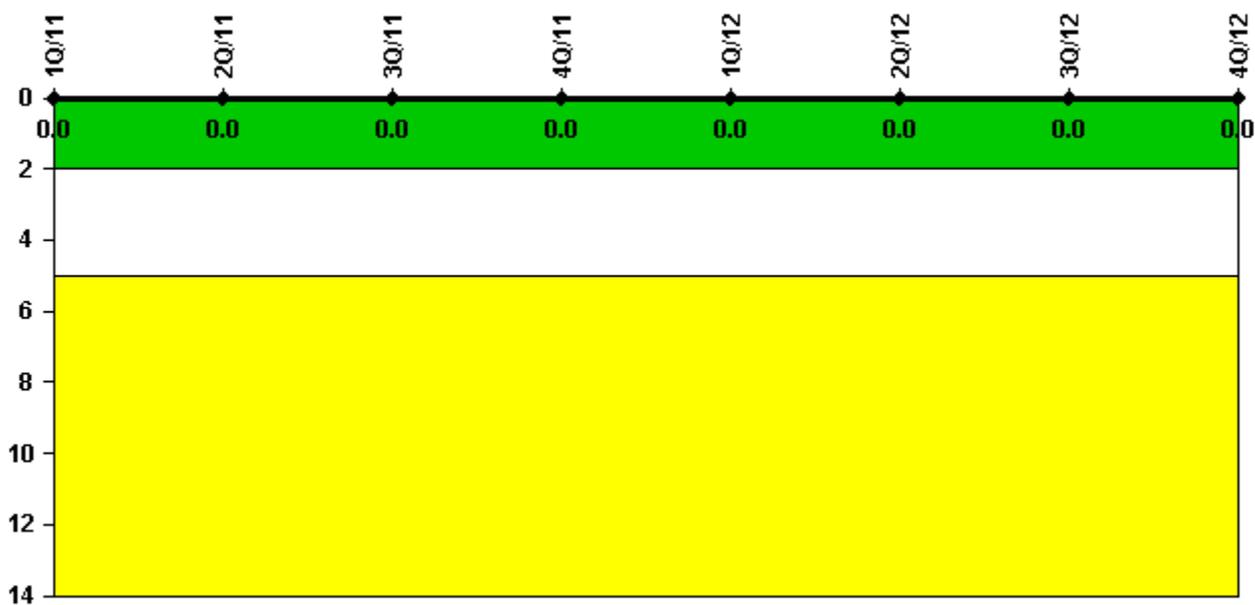
Thresholds: White < 94.0% Yellow < 90.0%

Notes

Alert & Notification System	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
Successful siren-tests	377	405	377	377	377	377	376	376
Total sirens-tests	377	406	377	377	377	377	377	377
Indicator value	99.9%	99.9%	99.9%	99.9%	99.9%	100.0%	99.9%	99.9%

Licensee Comments: none

Occupational Exposure Control Effectiveness



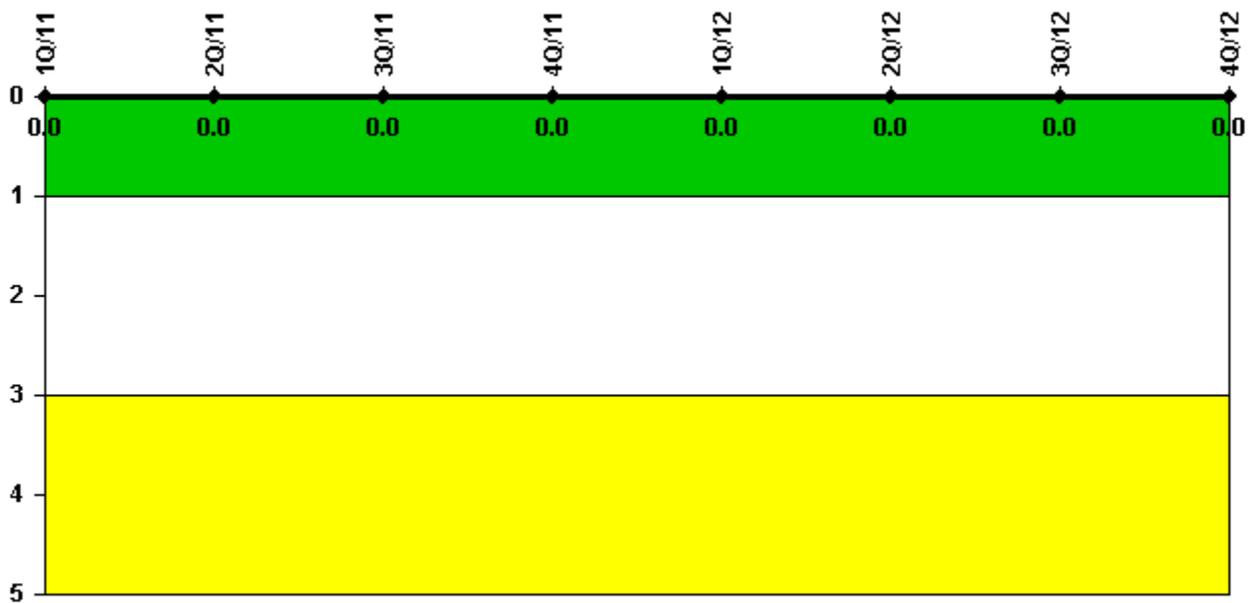
Thresholds: White > 2.0 Yellow > 5.0

Notes

Occupational Exposure Control Effectiveness	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
High radiation area occurrences	0	0	0	0	0	0	0	0
Very high radiation area occurrences	0	0	0	0	0	0	0	0
Unintended exposure occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

RETS/ODCM Radiological Effluent



Thresholds: White > 1.0 Yellow > 3.0

Notes

RETS/ODCM Radiological Effluent	1Q/11	2Q/11	3Q/11	4Q/11	1Q/12	2Q/12	3Q/12	4Q/12
RETS/ODCM occurrences	0	0	0	0	0	0	0	0
Indicator value	0							

Licensee Comments: none

Although the Security Cornerstone is included in the Reactor Oversight Process assessment program, the Commission has decided that specific information related to findings and performance indicators pertaining to the Security Cornerstone will not be publicly available to ensure that security information is not provided to a possible adversary. Other than the fact that a finding or performance indicator is Green or Greater-Than-Green, security related information will not be displayed on the public web page.